BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work	:	**Improvements to Roads and Drains at Gupta Vidyasagara Layout and Surrounding Area Roads in Ward No 06 Thanisandra**

EMB

Job Code	:	006-20-000012

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
1st and Final bill

Name of work: Improvements to Roads and Drains at Gupta Vidyasagara Layout and Surrounding Area Roads in Ward No 06 Thanisandra

Work Order No: BBMP/EE/BTP/WO/159/2020-21 dt: 10.12.2020

JOB NUMBER: 006-21-000012

Estimate Cost: 100.00 lakhs.

Name of Contractor : Sri. M.L Dhananjaya

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - **Excavation for road, drains** and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 142 / Item No. 19.1, PWD SR 2016-17								
		Cum							
	Qty Recorded as per Premeasurement Item No. Page No.						**729.66**	217.96	159036.69
2	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
		Cum							
	Qty Recorded as per Premeasurement Item No. Page No.						**9.86**	5184.00	51114.24
3	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
		Cum							
	Qty Recorded as per Premeasurement Item No. Page No.						**436.38**	5692.45	**2484071.33**
4	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
		Cum							
	Qty Recorded as per Premeasurement Item No. Page No.						**0.91**	6034.11	5491.04
5	Providing laying plain/ **reinforced cement concrete for side Drains** Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								

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	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
A	For Drain.								
a	Vidyasagar HP school road 1st cross W1168	cum	1	30.00	1.15	0.15	5.18		
b	2nd cross W1172		1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	25.60	1.15	0.15	4.42		
c	4th cross road W 1799		1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	19.00	1.15	0.15	3.28		
d	5th cross road - R/s W 1182		1	30.00	1.15	0.15	5.18		
			1	15.10	1.15	0.15	2.60		
e	L/s W 1182		1	29.70	1.15	0.15	5.12		
			1	20.00	1.15	0.15	3.45		
f	cross road		1	40.00	1.15	0.15	6.90		
g	Rasool Layout road R/s W 1779		1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	23.00	1.15	0.15	3.97		
	L/s W 1779		1	30.00	1.15	0.15	5.18		
			1	30.00	1.15	0.15	5.18		
			1	23.50	1.15	0.15	4.05		
	for drain side wall								
a	Vidyasagar HP school road 1st cross W1168	cum	2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
b	2nd cross W1172		2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	25.60	0.15	0.70	5.38		
c	4th cross road W 1799		2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	19.00	0.15	0.70	3.99		
d	5th cross road - R/s W 1182		2x1	30.00	0.15	0.70	6.30		
			2x1	15.10	0.15	0.70	3.17		
e	L/s W 1182		2x1	29.70	0.15	0.70	6.24		
			2x1	20.00	0.15	0.70	4.20		
f	cross road		2x1	40.00	0.15	0.70	8.40		
g	Rasool Layout road		2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	23.00	0.15	0.70	4.83		
	L/s W 1779		2x1	30.00	0.15	0.70	6.30		
			2x1	30.00	0.15	0.70	6.30		
			2x1	23.50	0.15	0.70	4.94		
							235.58		
			Qty Limited to =				234.11	7423.00	1737798.53

Assistant Engineer
Ward No. 06
B.B.M.P. Byatarayanapura Sub Division

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P., Bengaluru-24

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
6	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
		Tonne							
	Qty Recorded as per Premeasurement Item No. Page No.						14.15	68292.74	966342.27
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing utting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
a	Vidyasagar HP school road 1st cross W1168	cum	1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
b	2nd cross W1172		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	25.60	0.75		19.20		
c	4th cross road W 1799		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	19.00	0.75		14.25		
d	5th cross road - R/s W 1182		1	30.00	0.75		22.50		
			1	15.10	0.75		11.33		
e	L/s W 1182		1	29.70	0.75		22.28		
			1	20.00	0.75		15.00		
f	cross road		1	40.00	0.75		30.00		
g	Rasool Layout road R/s W 1779		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	23.00	0.75		17.25		
	L/s W 1779		1	30.00	0.75		22.50		
			1	30.00	0.75		22.50		
			1	23.50	0.75		17.63		
	Missing slabs		1	13.00	0.90		11.70		
			1	14.00	0.90		12.60		
							486.23	2453.62	1193011.38

Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ Ward No.06ನೇ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

8	Providing precast slab of 25mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge **(Data rate Approved).**								
	Cd1	sqm	1	5.50	1.20		6.60		
	Cd2		1	4.90	1.20		5.88		
	Cd3		1	4.90	1.50		7.35		
	Cd4		1	4.90	1.20		5.88		
	Cd5		1	4.90	1.20		5.88		
	Cd6		1	4.90	1.20		5.88		
			Actiual Qty				37.40		
			Limited to				34.44	2888.50	99507.00

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
Ward No. 06
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
9	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
		Cum							
	Qty Recorded as per Premeasurement Item No. Page No.						990.30	59.07	58497.02
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
		sqm							
	Qty Recorded as per Premeasurement Item No. Page No.						2163.26	6.68	14450.58
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
		Cum							
	Qty Recorded as per Premeasurement Item No. Page No.						329.12	2094.47	689331.97
12	**Cement concrete pavement.Construction of un-reinforced plain** cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
a	Vidyasagar HP school road 1st cross W1168		1	15.00	4.90+4.60	0.15	10.80		
					2				
			1	15.00	4.70+4.50	0.15	10.35		
					2				
			1	15.00	4.50+4.80	0.15	10.46		
					2				
			1	15.00	4.80+4.50	0.15	10.46		
					2				
			1	15.00	4.50+4.30	0.15	9.90		
					2				
b	2nd cross W1172		1	15.00	5.10+5.10	0.15	11.48		
					2				
			1	15.00	5.10+5.00	0.15	11.43		
					2				
			1	15.00	5.25+5.05	0.15	11.59		
					2				
			1	15.00	5.25+5.00	0.15	11.53		
					2				
			1	15.00	5.00+4.80	0.15	11.03		
					2				

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			1	8.80	4.80+4.95	0.15	6.44		
					2				
			1	14.80	4.10+3.90	0.15	8.88		
					2				
			1	15.00	4.90+4.20	0.15	10.24		
					2				
			1	15.00	4.70+4.10	0.15	9.90		
					2				
			1	15.00	4.10+4.95	0.15	10.18		
					2				
			1	6.00	4.95+5.10	0.15	4.52		
					2				
			1	15.00	4.20+4.25	0.15	9.51		
					2				
			1	11.00	4.25+4.95	0.15	7.59		
					2				
			1	12.60	3.10+4.05	0.15	6.76		
					2				
c	5th cross road - W 1182	cum	1	13.00	4.30+4.35	0.15	8.43		
					2				
			1	10.80	3.40+3.50	0.15	5.59		
					2				
			1	15.00	4.10+4.40	0.15	9.56		
					2				
			1	15.00	4.40+4.50	0.15	10.01		
					2				
			1	15.00	4.50+4.20	0.15	9.79		
					2				
			1	10.70	4.20+4.00	0.15	6.58		
					2				
d	cross road B		1	15.00	6.55+5.00	0.17	14.73		
					2				
			1	15.00	5.00+3.95	0.18	12.08		
					2				
			1	11.60	3.95+3.30	0.17	7.15		
					2				
e	Rasool Layout road W 1779		1	15.00	3.50+3.90	0.15	8.33		
					2				
			1	15.00	3.90+4.35	0.15	9.28		
					2				
			1	15.00	4.35+4.30	0.15	9.73		
					2				
			1	15.00	4.30+4.30	0.15	9.68		
					2				
			1	15.00	4.30+4.25	0.15	9.62		
					2				
			1	8.55	4.25+4.25	0.15	5.45		
					2				
f	Temple road W 1821 Ch 61.00 to 65.00 m		1	4.00	3.50+3.15	0.15	2.00		
					2				
	Ch 65.00 to 80.00 m		1	15.00	3.15+3.00	0.15	6.92		
					2				
	Ch 80.00 to 82.30 m		1	2.30	3.00+2.40	0.15	0.93		
					2				
			1	4.00	3.1+3.10	0.15	1.86		
					2				
	ramp		1	5.50	0.60	0.15	0.50		
			1	4.90	0.60	0.15	0.44		
			1	4.90	0.60	0.15	0.44		
							332.11		

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Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
deduct Manholes		12	0.785	0.81	0.15	1.14		
Small chambers		27	0.45	0.45	0.15	0.82		
				total ded		1.96		
				Actiual Qty		330.14		
				Limited to		330.10	5470.99	1805973.80
							Grand Total	9361026.00
							For 12% Applicable GST	1123323.00
							Total Amount	10484349.00

20.03.2024
Assistant Engineer
Ward No. 06

20/3/2024
Assistant Executive Engineer
Byatarayanapura Sub Division

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